

#4

## RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 101532,153  
Source: PCT  
Date Processed by STIC: 4-28-05

***ENTERED***



PCT

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/532,153

DATE: 04/28/2005  
TIME: 16:26:58

Input Set : A:\Seq Listing.ST25.txt  
Output Set: N:\CRF4\04272005\J532153.raw

3 <110> APPLICANT: Evolutionary Genomics LLC  
 5 <120> TITLE OF INVENTION: Development of Therapeutics for the Treatment of  
 6 Endotoxin-Mediated Diseases  
 8 <130> FILE REFERENCE: GENO200.3.1  
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/532,153  
 C--> 10 <141> CURRENT FILING DATE: 2005-04-20 (pg. 6)  
 10 <150> PRIOR APPLICATION NUMBER: 10/100,422  
 11 <151> PRIOR FILING DATE: 2002-03-18  
 13 <160> NUMBER OF SEQ ID NOS: 40  
 15 <170> SOFTWARE: PatentIn version 3.2  
 17 <210> SEQ ID NO: 1  
 18 <211> LENGTH: 2427  
 19 <212> TYPE: DNA  
 20 <213> ORGANISM: Pan troglodytes  
 22 <400> SEQUENCE: 1  
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 25 ctccccttct caaccaagaa cctggacctg agctttaatc ccctgaggca ttttaggcagc 120  
 27 tatacgcttct tcagtttccc agaaactgcag gtgctggatt tatccagggtg tgaatccag 180  
 29 acaattgaag atggggcata tcagagccta agccacctct ccaccttaat attgacagga 240  
 31 aaccccatcc agagtttagc cctgggagcc ttttctggac tatcaagttt acagaagctg 300  
 33 gtggctgtgg agacaaatct agcatctcta gagaacttcc ccattggaca tctaaaaact 360  
 35 ttgaaaagaac ttaatgtggc tcacaatctt atccaatctt tcaaattacc tgagtatttt 420  
 37 tctaattctga ccaatctaga gcacttggac ctttccagca acaagattca aagtatttt 480  
 39 tgcacagact tgcgggttct acatcaaatg cccctactca atctctctt agacctgtcc 540  
 41 ctgaacccta tgaactttat ccaaccaggc gcattaaag aaatttaggt tcataagctg 600  
 43 actttgagaa ataattttga tagtttaat gtaataaaaa cttgtattca aggtctggct 660  
 45 gttttagaag tccatcggtt ggttctggga gaatttagaa atgaaggaaa cttggaaaag 720  
 47 tttgacaat ctgctctaga gggcctgtgc aatttgcacca ttgaagaatt ccgattagca 780  
 49 tacttagact actaccccgta tgatattttt gacttattta attgtttgac aaatgtttct 840  
 51 tcattttccc tggtagtgt gactattaaa agcgtaaaag acttttctta taatttcgga 900  
 53 tggcaacatt tagaatttagt taactgtaaa ttggacagt ttcccacatt gaaactcaaa 960  
 55 tctctcaaaa ggcttacttt cacttccaaac aaaggggta atgcttttc agaagttgat 1020  
 57 ctaccaagcc ttgagttct agatctcagt agaaatggct tgagttcaa aggttgctgt 1080  
 59 tctcaaagtg attttggac aaccagccta aagtatttag atctgagctt caatgggttt 1140  
 61 attaccatga gttcaaactt ctgggctta gaacaactag aacatctgga tttccagcat 1200  
 63 tccaaattga aacaaatggag tgagtttca gtatttctat cactcagaaa cctcatttac 1260  
 65 cttgacattt ctcatactca caccagagtt gcttcaatg gcatcttcaa tggcttgc 1320  
 67 agtctcgaag tcttggaaat ggctggcaat tctttccagg aaaacttctt tccagatatac 1380  
 69 ttcacagagc tgagaaactt gacccctcctg gacccctctc agtgtcaact ggagcagttg 1440  
 71 tctccaacag catttaactc actctccagt cttcaggtac taaatatgag ccacaacaac 1500  
 73 ttctttcat tggatacggtt tccttataag tgtctgaact ccctccaggt tcttgattac 1560  
 75 agtctcaatc acataatgac ttccaaaaaaa caggaactac agcattttcc aagttagtcta 1620  
 77 gcttcttaa atcttactca gaatgactt gcttgactt gtgaacacca aagtttcctg 1680

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79	caatggatca	aggaccagag	gcagctcttg	gtggaagttg	aacgaatgga	atgtgcaaca	1740										
81	ccttcagata	agcagggcat	gcctgtgctg	agtttgaata	tcacctgtca	gatgaataag	1800										
83	accatcattg	gtgtgtcggt	cctcagtgtg	ctttagtat	ctgttgttagc	agttctggc	1860										
85	tataagttct	attttacac	atgtcattctt	gctggctgca	taaagtatgg	tagaggtgaa	1920										
87	aacatctatg	atgccttgt	tatctactca	agccaggatg	aggactgggt	aaggaatgag	1980										
89	ctagtaaaga	attnagaaga	agggggtgcct	ccatttcagc	tctgccttca	ctacagagac	2040										
91	tttattcccg	gtgtggccat	tgtgcacac	atcatccatg	aaggtttcca	taaaagccga	2100										
93	aaggtgattg	ttgtgggtgc	ccagcacttc	atccagagcc	gctgggtgtat	ctttgaatat	2160										
95	gagattgctc	agacctggca	gtttctgagc	agtcgtgctg	gtatcatctt	cattgtcctg	2220										
97	cagaagggtgg	agaagaccct	gctcaggcgg	caggtggagc	tgtaccgcct	tctcagcagg	2280										
99	aacacttacc	tggagtgggg	ggacagtgtc	ctggggcggc	acatcttctg	gagacgactc	2340										
101	agaaaagccc	tgctgatgg	taaatcatgg	aatccagaag	gaacagtggg	tacaggatgc	2400										
103	aattggcagg	aagcaacatc	tatctga				2427										
106	<210>	SEQ ID NO:	2														
107	<211>	LENGTH:	2427														
108	<212>	TYPE:	DNA														
109	<213>	ORGANISM:	Pan troglodytes														
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113	<221>	NAME/KEY:	CDS														
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118	Val	Val	Pro	Asn	Ile	Thr	Tyr	Gln	Cys	Met	Glu	Leu	Asn	Phe	Tyr	Lys	
119	1				5			10						15			
121	atc	ccc	gac	aac	ctc	ccc	ttc	tca	acc	aag	aac	ctg	gac	ctg	agc	ttt	96
122	Ile	Pro	Asp	Asn	Leu	Pro	Phe	Ser	Thr	Lys	Asn	Leu	Asp	Leu	Ser	Phe	
123					20			25				30					
125	aat	ccc	ctg	agg	cat	tta	ggc	agc	tat	agc	ttc	ttc	agt	ttc	cca	gaa	144
126	Asn	Pro	Leu	Arg	His	Leu	Gly	Ser	Tyr	Ser	Phe	Phe	Ser	Phe	Pro	Glu	
127					35			40				45					
129	ctg	cag	gtg	ctg	gat	tta	tcc	agg	tgt	gaa	atc	cag	aca	att	gaa	gat	192
130	Leu	Gln	Val	Leu	Asp	Leu	Ser	Arg	Cys	Glu	Ile	Gln	Thr	Ile	Glu	Asp	
131					50			55			60						
133	ggg	gca	tat	cag	agc	cta	agc	cac	ctc	tcc	acc	tta	ata	ttg	aca	gga	240
134	Gly	Ala	Tyr	Gln	Ser	Leu	Ser	His	Leu	Ser	Thr	Leu	Ile	Leu	Thr	Gly	
135					65			70			75			80			
137	aac	ccc	atc	cag	agt	tta	gcc	ctg	gga	gcc	ttt	tct	gga	cta	tca	agt	288
138	Asn	Pro	Ile	Gln	Ser	Leu	Ala	Leu	Gly	Ala	Phe	Ser	Gly	Leu	Ser	Ser	
139					85			90			95						
141	tta	cag	aag	ctg	gtg	gct	gtg	gag	aca	aat	cta	gca	tct	cta	gag	aac	336
142	Leu	Gln	Lys	Leu	Val	Ala	Val	Glu	Thr	Asn	Leu	Ala	Ser	Leu	Glu	Asn	
143					100			105			110						
145	ttc	ccc	att	gga	cat	ctc	aaa	act	ttg	aaa	gaa	ctt	aat	gtg	gct	cac	384
146	Phe	Pro	Ile	Gly	His	Leu	Lys	Thr	Leu	Lys	Glu	Leu	Asn	Val	Ala	His	
147					115			120			125						
149	aat	ctt	atc	caa	tct	ttc	aaa	tta	cct	gag	tat	ttt	tct	aat	ctg	acc	432
150	Asn	Leu	Ile	Gln	Ser	Phe	Lys	Leu	Pro	Glu	Tyr	Phe	Ser	Asn	Leu	Thr	
151					130			135			140						
153	aat	cta	gag	cac	ttg	gac	ctt	tcc	agc	aac	aag	att	caa	agt	att	tat	480

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154	Asn	Leu	Glu	His	Leu	Asp	Leu	Ser	Ser	Asn	Lys	Ile	Gln	Ser	Ile	Tyr	
155	145				150					155					160		
157	tgc	aca	gac	ttg	cg	tt	cta	cat	caa	atg	ccc	cta	ctc	aat	ctc	tct	528
158	Cys	Thr	Asp	Leu	Arg	Val	Leu	His	Gln	Met	Pro	Leu	Leu	Asn	Leu	Ser	
159					165					170					175		
161	tta	gac	ctg	tcc	ctg	aa	c	c	tt	at	cc	aa	cc	gg	gca	tt	576
162	Leu	Asp	Leu	Ser	Leu	Asn	Pro	Met	Asn	Phe	Ile	Gln	Pro	Gly	Ala	Phe	
163					180					185					190		
165	aaa	gaa	att	agg	ctt	cat	aag	ctg	act	tt	ag	aa	at	at	ttt	gat	624
166	Lys	Glu	Ile	Arg	Leu	His	Lys	Leu	Thr	Leu	Arg	Asn	Asn	Phe	Asp	Ser	
167			195					200						205			
169	tta	aat	gta	atg	aaa	act	tgt	att	caa	gg	ctg	gt	gg	tta	gaa	gtc	672
170	Leu	Asn	Val	Met	Lys	Thr	Cys	Ile	Gln	Gly	Leu	Ala	Gly	Leu	Glu	Val	
171			210					215						220			
173	cat	cgt	ttg	ctg	gga	gaa	ttt	aga	aat	gaa	gg	aa	cc	tt	gaa	aa	720
174	His	Arg	Leu	Val	Leu	Gly	Glu	Phe	Arg	Asn	Glu	Gly	Asn	Leu	Glu	Lys	
175			225				230			235					240		
177	ttt	gac	aaa	tct	gct	ct	gag	gg	ctg	tgc	aa	tt	cc	at	gaa	gaa	768
178	Phe	Asp	Lys	Ser	Ala	Leu	Glu	Gly	Leu	Cys	Asn	Leu	Thr	Ile	Glu	Glu	
179					245					250					255		
181	tcc	cga	tta	gca	tac	tta	gac	tac	tac	ctc	gat	gat	att	att	gac	tta	816
182	Phe	Arg	Leu	Ala	Tyr	Leu	Asp	Tyr	Tyr	Leu	Asp	Asp	Ile	Ile	Asp	Leu	
183			260				265							270			
185	ttt	aat	tgt	ttg	aca	aa	t	tt	tct	tca	ttt	tcc	ctg	gt	gt	act	864
186	Phe	Asn	Cys	Leu	Thr	Asn	Val	Ser	Ser	Phe	Ser	Leu	Val	Ser	Val	Thr	
187			275				280							285			
189	att	aaa	agc	gta	aaa	gac	ttt	tct	tat	aa	t	cc	gg	tt	ca	aa	912
190	Ile	Lys	Ser	Val	Lys	Asp	Phe	Ser	Tyr	Asn	Phe	Gly	Trp	Gln	His	Leu	
191			290				295							300			
193	gaa	tta	gtt	aa	tgt	aa	ttt	gga	cag	ttt	cc	aa	cc	tt	aa	cc	960
194	Glu	Leu	Val	Asn	Cys	Lys	Phe	Gly	Gln	Phe	Pro	Thr	Leu	Lys	Leu	Lys	
195			305				310			315					320		
197	tct	ctc	aaa	agg	ctt	act	tcc	aa	cc	aa	gg	gg	aa	at	gt	tt	1008
198	Ser	Leu	Lys	Arg	Leu	Thr	Phe	Thr	Ser	Asn	Lys	Gly	Gly	Asn	Ala	Phe	
199					325					330					335		
201	tca	gaa	gtt	aa	tgt	aa	ttt	cta	cc	aa	cc	tt	cc	aa	cc	aa	1056
202	Ser	Glu	Val	Asp	Leu	Pro	Ser	Leu	Glu	Phe	Leu	Asp	Leu	Ser	Arg	Asn	
203			340				345							350			
205	ggc	ttg	agt	ttc	aaa	gg	tgc	tgt	tct	caa	ag	gt	tt	gg	cc	aa	1104
206	Gly	Leu	Ser	Phe	Lys	Gly	Cys	Cys	Ser	Gln	Ser	Asp	Phe	Gly	Thr	Thr	
207			355				360							365			
209	agc	cta	aag	tat	tta	aa	ttt	ctg	aa	cc	tt	gg	aa	at	cc	at	1152
210	Ser	Leu	Lys	Tyr	Leu	Asp	Leu	Ser	Phe	Asn	Gly	Val	Ile	Thr	Met	Ser	
211			370				375			380							
213	tca	aac	tcc	ttg	ggc	tta	gaa	caa	cta	gaa	cc	tt	cc	gg	cc	aa	1200
214	Ser	Asn	Phe	Leu	Gly	Leu	Glu	Gln	Leu	Glu	His	Leu	Asp	Phe	Gln	His	
215		385				390				395					400		
217	tcc	aat	ttg	aa	caa	atg	aa	ttt	tca	gta	tt	cc	ct	cc	aa	aa	1248
218	Ser	Asn	Leu	Lys	Gln	Met	Ser	Glu	Phe	Ser	Val	Phe	Leu	Ser	Leu	Arg	

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219	405	410	415	
221	aac ctc att tac ctt gac att tct cat act cac acc aga gtt gct ttc			1296
222	Asn Leu Ile Tyr Leu Asp Ile Ser His Thr His Thr Arg Val Ala Phe			
223	420	425	430	
225	aat ggc atc ttc aat ggc ttg tcc agt ctc gaa gtc ttg aaa atg gct			1344
226	Asn Gly Ile Phe Asn Gly Leu Ser Ser Leu Glu Val Leu Lys Met Ala			
227	435	440	445	
229	ggc aat tct ttc cag gaa aac ttc ctt cca gat atc ttc aca gag ctg			1392
230	Gly Asn Ser Phe Gln Glu Asn Phe Leu Pro Asp Ile Phe Thr Glu Leu			
231	450	455	460	
233	aga aac ttg acc ttc ctg gac ctc tct cag tgt caa ctg gag cag ttg			1440
234	Arg Asn Leu Thr Phe Leu Asp Leu Ser Gln Cys Gln Leu Glu Gln Leu			
235	465	470	475	480
237	tct cca aca gca ttt aac tca ctc tcc agt ctt cag gta cta aat atg			1488
238	Ser Pro Thr Ala Phe Asn Ser Leu Ser Leu Gln Val Leu Asn Met			
239	485	490	495	
241	agc cac aac aac ttc ttt tca ttg gat acg ttt cct tat aag tgt ctg			1536
242	Ser His Asn Asn Phe Phe Ser Leu Asp Thr Phe Pro Tyr Lys Cys Leu			
243	500	505	510	
245	aac tcc ctc cag gtt ctt gat tac agt ctc aat cac ata atg act tcc			1584
246	Asn Ser Leu Gln Val Leu Asp Tyr Ser Leu Asn His Ile Met Thr Ser			
247	515	520	525	
249	aaa aaa cag gaa cta cag cat ttt cca agt agt cta gct ttc tta aat			1632
250	Lys Lys Gln Glu Leu Gln His Phe Pro Ser Ser Leu Ala Phe Leu Asn			
251	530	535	540	
253	ctt act cag aat gac ttt gct tgt act tgt gaa cac caa agt ttc ctg			1680
254	Leu Thr Gln Asn Asp Phe Ala Cys Thr Cys Glu His Gln Ser Phe Leu			
255	545	550	555	560
257	caa tgg atc aag gac cag agg cag ctc ttg gtg gaa gtt gaa cga atg			1728
258	Gln Trp Ile Lys Asp Gln Arg Gln Leu Leu Val Glu Val Glu Arg Met			
259	565	570	575	
261	gaa tgt gca aca cct tca gat aag cag ggc atg cct gtg ctg agt ttg			1776
262	Glu Cys Ala Thr Pro Ser Asp Lys Gln Gly Met Pro Val Leu Ser Leu			
263	580	585	590	
265	aat atc acc tgt cag atg aat aag acc atc att ggt gtg tcg gtc ctc			1824
266	Asn Ile Thr Cys Gln Met Asn Lys Thr Ile Ile Gly Val Ser Val Leu			
267	595	600	605	
269	agt gtg ctt gta gta tct gtt gta gca gtt ctg gtc tat aag ttc tat			1872
270	Ser Val Leu Val Val Ser Val Val Ala Val Leu Val Tyr Lys Phe Tyr			
271	610	615	620	
273	ttt cac ctg atg ctt ctt gct ggc tgc ata aag tat ggt aga ggt gaa			1920
274	Phe His Leu Met Leu Leu Ala Gly Cys Ile Lys Tyr Gly Arg Gly Glu			
275	625	630	635	640
277	aac atc tat gat gcc ttt gtt atc tac tca agc cag gat gag gac tgg			
278	Asn Ile Tyr Asp Ala Phe Val Ile Tyr Ser Ser Gln Asp Glu Asp Trp			
279	645	650	655	
281	gta agg aat gag cta gta aag aat tta gaa gaa ggg gtg cct cca ttt			2016
282	Val Arg Asn Glu Leu Val Lys Asn Leu Glu Glu Gly Val Pro Pro Phe			
283	660	665	670	

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285 cag ctc tgc ctt cac tac aga gac ttt att ccc ggt gtg gcc att gct	2064
286 Gln Leu Cys Leu His Tyr Arg Asp Phe Ile Pro Gly Val Ala Ile Ala	
287 675 680 685	
289 gcc aac atc atc cat gaa ggt ttc cat aaa agc cga aag gtg att gtt	2112
290 Ala Asn Ile Ile His Glu Gly Phe His Lys Ser Arg Lys Val Ile Val	
291 690 695 700	
293 gtg gtg tcc cag cac ttc atc cag agc cgc tgg tgt atc ttt gaa tat	2160
294 Val Val Ser Gln His Phe Ile Gln Ser Arg Trp Cys Ile Phe Glu Tyr	
295 705 710 715 720	
297 gag att gct cag acc tgg cag ttt ctg agc agt cgt gct ggt atc atc	2208
298 Glu Ile Ala Gln Thr Trp Gln Phe Leu Ser Ser Arg Ala Gly Ile Ile	
299 725 730 735	
301 ttc att gtc ctg cag aag gtg gag aag acc ctg ctc agg cgg cag gtg	2256
302 Phe Ile Val Leu Gln Lys Val Glu Lys Thr Leu Leu Arg Arg Gln Val	
303 740 745 750	
305 gag ctg tac cgc ctt ctc agc agg aac act tac ctg gag tgg gag gac	2304
306 Glu Leu Tyr Arg Leu Leu Ser Arg Asn Thr Tyr Leu Glu Trp Glu Asp	
307 755 760 765	
309 agt gtc ctg ggg cgg cac atc ttc tgg aga cga ctc aga aaa gcc ctg	2352
310 Ser Val Leu Gly Arg His Ile Phe Trp Arg Arg Leu Arg Lys Ala Leu	
311 770 775 780	
313 ctg gat ggt aaa tca tgg aat cca gaa gga aca gtg ggt aca gga tgc	2400
314 Leu Asp Gly Lys Ser Trp Asn Pro Glu Gly Thr Val Gly Thr Gly Cys	
315 785 790 795 800	
317 aat tgg cag gaa gca aca tct atc tga	2427
318 Asn Trp Gln Glu Ala Thr Ser Ile	
319 805	
322 <210> SEQ ID NO: 3	
323 <211> LENGTH: 808	
324 <212> TYPE: PRT	
325 <213> ORGANISM: Pan troglodytes	
327 <400> SEQUENCE: 3	
329 Val Val Pro Asn Ile Thr Tyr Gln Cys Met Glu Leu Asn Phe Tyr Lys	
330 1 5 10 15	
333 Ile Pro Asp Asn Leu Pro Phe Ser Thr Lys Asn Leu Asp Leu Ser Phe	
334 20 25 30	
337 Asn Pro Leu Arg His Leu Gly Ser Tyr Ser Phe Phe Ser Phe Pro Glu	
338 35 40 45	
341 Leu Gln Val Leu Asp Leu Ser Arg Cys Glu Ile Gln Thr Ile Glu Asp	
342 50 55 60	
345 Gly Ala Tyr Gln Ser Leu Ser His Leu Ser Thr Leu Ile Leu Thr Gly	
346 65 70 75 80	
349 Asn Pro Ile Gln Ser Leu Ala Leu Gly Ala Phe Ser Gly Leu Ser Ser	
350 85 90 95	
353 Leu Gln Lys Leu Val Ala Val Glu Thr Asn Leu Ala Ser Leu Glu Asn	
354 100 105 110	
357 Phe Pro Ile Gly His Leu Lys Thr Leu Lys Glu Leu Asn Val Ala His	
358 115 120 125	
361 Asn Leu Ile Gln Ser Phe Lys Leu Pro Glu Tyr Phe Ser Asn Leu Thr	

RAW SEQUENCE LISTING ERROR SUMMARY  
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Input Set : A:\Seq Listing.ST25.txt  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:8; Xaa Pos. 198,683  
Seq#:9; Xaa Pos. 198,683  
Seq#:11; Xaa Pos. 635  
Seq#:12; Xaa Pos. 635  
Seq#:17; Xaa Pos. 14,462  
Seq#:18; Xaa Pos. 14,462  
Seq#:23; Xaa Pos. 758  
Seq#:24; Xaa Pos. 758

## VERIFICATION SUMMARY

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L:10 M:270 C: Current Application Number differs, Replaced Current Application No  
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:1198 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:8  
L:1198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:624  
M:341 Repeated in SeqNo=8  
L:1419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:192  
M:341 Repeated in SeqNo=9  
L:1830 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:11  
L:1830 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:1920  
L:2042 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:624  
L:2665 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:17  
L:2665 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:48  
M:341 Repeated in SeqNo=17  
L:2886 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0  
M:341 Repeated in SeqNo=18  
L:3885 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:23  
L:3885 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:2304  
L:4101 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:752